

SLOVENSKI STANDARD
SIST EN ISO 13759:1998
01-maj-1998

Naftni proizvodi - Določevanje alkil nitrata v dieselskem gorivu - Spektrometrijska metoda (ISO 13759:1996)

Petroleum products - Determination of alkyl nitrate in diesel fuels - Spectrometric method (ISO 13759:1996)

Mineralölerzeugnisse - Bestimmung von Alkylnitrat in Dieselkraftstoff -
Spektrometrisches Verfahren (ISO 13759:1996)

THIS STANDARD PREVIEW

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Produits pétroliers - Détermination du nitrate d'alkyle dans les carburants diesels -
Méthode spectrométrique (ISO 13759:1996)

[SIST EN ISO 13759:1998](#)

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Ta slovenski standard je istoveten z: EN ISO 13759:1996

ICS:

75.160.20 Tekoča goriva Liquid fuels

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 13759

December 1996

ICS 75.160.20

Descriptors: petroleum products, fuels, automotive fuels, diesel fuels, chemical analysis, determination of content, nitrates, spectrometric method

English version

Petroleum products - Determination of alkyl nitrate in diesel fuels
- Spectrometric method (ISO 13759:1996)

Produits pétroliers - Détermination du nitrate d'alkyle dans
les carburants diesel - Méthode spectrométrique (ISO
13759:1996)

Mineralölerzeugnisse - Bestimmung von Alkylnitrat in
Dieselkraftstoff - Spektrometrisches Verfahren (ISO
13759:1996)

This European Standard was approved by CEN on 25 November 1996.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Corrected 1997-09-11

Foreword

The text of the International Standard ISO 13759:1996 has been prepared by Technical Committee ISO/TC 28 "Petroleum products and lubricants" in collaboration with Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1997, and conflicting national standards shall be withdrawn at the latest by June 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13759:1996 was approved by CEN as a European Standard without any modification.

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NOTE: Normative references to International Standards are listed in annex ZA (normative).
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Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995

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INTERNATIONAL STANDARD

ISO
13759

First edition
1996-12-15

Petroleum products — Determination of alkyl nitrate in diesel fuels — Spectrometric method

*Produits pétroliers — Détermination du nitrate d'alkyle dans les carburants
diesels — Méthode spectrométrique*

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Reference number
ISO 13759:1996(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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International Standard ISO 13759 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

Annex A of this International Standard is for information only.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@isocs.iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

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Petroleum products — Determination of alkyl nitrate in diesel fuels — Spectrometric method

WARNING — The use of this International Standard may involve hazardous materials, operations and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies a procedure for the determination of alkyl nitrate in diesel fuel in the concentration range 0,03 % (V/V) to 0,30 % (V/V) (volume fraction 0,03 % to 0,30 %).

A knowledge of the specific alkyl nitrate present in the diesel fuel is required for accurate determinations, as the calibration of instrumentation is reliant on reference solutions containing the nitrate to be analysed. When the specific alkyl nitrate is not known, a result comparative to a reference alkyl nitrate (4.2) gives indicative information.

NOTE — The addition of certain alkyl nitrates to diesel fuel enhances the cetane number as measured by the engine test described in ISO 5165. It has no effect on the cetane index value as described in ISO 4264. See annex A.

The presence of nitrate esters, inorganic nitrate ions and nitrogen oxides will interfere with this determination.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 385-1:1984, *Laboratory glassware — Burettes — Part 1: General requirements*.

ISO 835-1:1981, *Laboratory glassware — Graduated pipettes — Part 1: General requirements*.

ISO 1042:1983, *Laboratory glassware — One-mark volumetric flasks*.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*.